PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1. (Currently Amended) An apparatus spread spectrum receiver for receiving multiple spread

spectrum signals each traveling upon a different propagation path and each having a resultant

arrival time difference with respect to one another, said spread spectrum receiver comprising:

a first demodulator means for demodulating a first spread spectrum signal of said

multiple spread spectrum signals in accordance with a first arrival time; and

a second demodulator means for demodulating a second spread spectrum signal of said

multiple spread spectrum signals in accordance with a time interval difference with respect to

said first arrival time,

wherein said first demodulator means comprises:

<u>a</u> pseudorandom noise descrambler[[ing]] means for descrambling said first spread

spectrum signal in accordance with a pseudorandom noise sequence;

a phase adjustor[[ment]] means for extracting a pilot signal from said descrambled first

spread spectrum signal and multiplying said descrambled first spread spectrum signal with said

pilot signal, thereby forming a phase adjusted signal; and

<u>a</u> <u>dechannelization</u> <u>unit</u> <u>means</u> for multiplying said phase adjusted signal by an

orthogonal channel sequence.

2. (Cancelled)

3. (Currently Amended) The apparatus spread spectrum receiver of Claim 1 further comprising a

Walsh sequence generator means for generating said orthogonal channel sequence and wherein

said dechannelization unit means further comprises:

delay element for receiving said orthogonal channel sequence and for delaying said

orthogonal channel sequence by said fixed time interval to provide said a delayed orthogonal

channel sequence to said second demodulator.

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4. (Currently Amended) The apparatus spread spectrum receiver of Claim 1 wherein said phase

adjustmentor means comprises:

a pilot filter for extracting said pilot signal from said first spread spectrum signal; and

complex conjugate multiplier means for receiving said first spread spectrum signal and

said extracted pilot signal and for multiplying said descrambled first spread spectrum signal with

said extracted pilot signal.

5. (Currently Amended) The apparatus spread spectrum receiver of Claim 4 wherein said pilot

filter extracts said pilot signal in accordance with an orthogonal pilot sequence.

6. (Currently Amended) The apparatus spread spectrum receiver of Claim 1 further comprising a

combiner means for receiving said first demodulated spread spectrum signal and said second

demodulated spread spectrum signal and for combining said a delayed first demodulated spread

spectrum signal and said second demodulated spread spectrum signal to provide an improved

estimate of a spread spectrum signal.

7. (Currently Amended) The apparatus spread spectrum receiver of Claim 1 further comprising a

switching means for providing said first spread spectrum signal to said first demodulator means

and for switching after said fixed time interval to provide said second spread spectrum signal to

said second demodulator means.

8. (Previously Presented) A method for receiving multiple spread spectrum signals each

traveling upon a different propagation path and each having a resultant arrival time difference

with respect to one another, said method comprising the steps of:

demodulating a first spread spectrum signal of said multiple spread spectrum signals in

accordance with a first arrival time; and

demodulating a second spread spectrum signal of said multiple spread spectrum signals

in accordance with a time interval difference with respect to said first arrival time,

wherein said step of demodulating said first spread spectrum signal comprises the steps of:

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descrambling said first spread spectrum signal in accordance with a pseudorandom noise

sequence;

extracting a pilot signal from said descrambled first spread spectrum signal;

multiplying said descrambled first spread spectrum signal with said pilot signal, thereby

forming a phase adjusted signal; and

multiplying said phase adjusted signal by an orthogonal channel sequence.

9. (Cancelled)

10. (Currently Amended) The method of Claim 8 further comprising the steps of:

generating said orthogonal channel sequence; and

delaying said orthogonal channel sequence by said fixed time interval to provide [[said]]

<u>a delayed</u> orthogonal channel sequence.

11. (Currently Amended) The method of Claim 8 further comprising the step of combining

[[said]] a delayed first demodulated spread spectrum signal and said second demodulated spread

spectrum signal to provide an improved estimate of a spread spectrum signal.

12. (Currently Amended) The method of Claim 8 further comprising the steps of:

first switching to provide said first spread spectrum signal; and

second switching after said fixed time interval to provide said second spread spectrum

signal.

13. (Previously Presented) An apparatus for receiving multiple spread spectrum signals each

traveling upon a different propagation path and each having a resultant arrival time difference

with respect to one another, said apparatus comprising:

means for demodulating a first spread spectrum signal of said multiple spread spectrum

signals in accordance with a first arrival time; and

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means for demodulating a second spread spectrum signal of said multiple spread

spectrum signals in accordance with a time interval difference with respect to said first arrival

time,

wherein said means for demodulating said first spread spectrum signal comprises:

means for descrambling said first spread spectrum signal in accordance with a

pseudorandom noise sequence;

means for extracting a pilot signal from said descrambled first spread spectrum signal;

means for multiplying said descrambled first spread spectrum signal with said pilot

signal, thereby forming a phase adjusted signal; and

means for multiplying said phase adjusted signal by an orthogonal channel sequence.

14-20. (Cancelled)

21. (New) The apparatus of Claim 13 further comprising:

means for generating said orthogonal channel sequence; and

means for delaying said orthogonal channel sequence by said fixed time interval to

provide said orthogonal channel sequence.

22. (New) The apparatus of Claim 13 further comprising means for combining said first

demodulated spread spectrum signal and said second demodulated spread spectrum signal to

provide an improved estimate of a spread spectrum signal.

23. (New) The apparatus of Claim 13 further comprising:

means for first switching to provide said first spread spectrum signal; and

means for second switching after said fixed time interval to provide said second spread

spectrum signal.

24. (New) A computer program product, comprising:

a computer-readable medium comprising code for causing at least one computer for:

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demodulating a first spread spectrum signal of multiple spread spectrum signals in accordance with a first arrival time; and

demodulating a second spread spectrum signal of said multiple spread spectrum signals in accordance with a time interval difference with respect to said first arrival time, wherein said demodulating said first spread spectrum signal comprises:

descrambling said first spread spectrum signal in accordance with a pseudorandom noise sequence;

extracting a pilot signal from said descrambled first spread spectrum signal;

multiplying said descrambled first spread spectrum signal with said pilot signal, thereby forming a phase adjusted signal; and

multiplying said phase adjusted signal by an orthogonal channel sequence.

25. (New) The computer program product of Claim 24 further comprising code for:

generating said orthogonal channel sequence; and

delaying said orthogonal channel sequence by said fixed time interval to provide said orthogonal channel sequence.

26. (New) The computer program product of Claim 24 further comprising code for combining said first demodulated spread spectrum signal and said second demodulated spread spectrum signal to provide an improved estimate of a spread spectrum signal.

27. (New) The computer program product of Claim 24 further comprising code for:

first switching to provide said first spread spectrum signal; and

second switching after said fixed time interval to provide said second spread spectrum signal.

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